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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,006	02/01/2001	Thomas Hottkowitz	2923-123	6539
6449 75	90 11/04/2005		EXAMINER	
ROTHWELL, FIGG, ERNST & MANBECK, P.C.			STOCKTON, LAURA	
1425 K STREET, N.W. SUITE 800		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			1626	
			DATE MAILED: 11/04/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/762,006	HOTTKOWITZ, THOMAS			
		Examiner	Art Unit			
		Laura L. Stockton, Ph.D.	1626			
The MAILING Period for Reply	DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
THE MAILING DATE  - Extensions of time may be after SIX (6) MONTHS from  - If the period for reply specifing the period for reply is specified.  - If NO period for reply within the second property of the Company of t	OF THIS COMMUNICATION. available under the provisions of 37 CFR 1.13 in the mailing date of this communication. fied above is less than thirty (30) days, a reply scifled above, the maximum statutory period wet or extended period for reply will, by statute,	IS SET TO EXPIRE 3 MONTH( 66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s) filed on <u>05 August 2005 and 05 October 2005</u> .						
2a) ☐ This action is F	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13,1</u> 4a) Of the abov 5)□ Claim(s) 6)⊠ Claim(s) <u>1-13,</u> 7)□ Claim(s)	15, 33 and 43-45 is/are rejected	vn from consideration.				
Application Papers	·					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
		drawing(s) be held in abeyance. See				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C.	. & 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
· Attachment/c\						
Attachment(s)  1)   Notice of References Cite	ed (PTO-892)	4) Interview Summary (	/PT∩-413\			
2) 🔲 Notice of Draftsperson's	Patent Drawing Review (PTO-948) tatement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da				

#### DETAILED ACTION

Claims 1-13, 15, 33 and 43-45 are pending in the application.

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 5, 2005 has been entered.

#### Election/Restrictions

Applicants' election with traverse of Group XI, and the species of compound 372 in Paper No. 9 (filed June

14, 2002), was acknowledged in the Office Action mailed July 11, 2002 {Paper No. 10}. The requirement has deemed proper and made FINAL in a previous Office Action.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13, 15, 33 and 43-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is indefinite because of the newly added limitation of the A variable having at least 19 carbon atoms which is in conflict with the limitation,  $12 \le p+q \le 30$ ; p+q representing 12, 13 or 14; and the provisos when p+q is 12 or 14. In the limitation,  $12 \le p+q \le 30$ 

 $p+q \le 30$ ; p+q representing 12, 13 or 14; and the provisos when p+q is 12 or 14, the total number of carbon atoms in the A radical would be less than 19 in each of these instances. Also see claims 15, 44 and 45 for same.

#### Response to Amendment

The Declaration by Dr. H. Eibl filed

December 15, 2004 is insufficient to overcome the rejection of claims 1-13, 15, 33 and 43-45 based upon 35 U.S.C. 103(a) as being unpatentable over AT 393505 and Eibl et al. {EP 534,445} as set forth in the last Office action because the Declaration is not executed. Further, the closest prior art compound(s) is not identified. Applicant relying upon comparative showing to rebut prima facie case must compare his claimed invention with the closest prior art. In re Holladay, 199 USPQ 516, 1978.

Additionally, Applicants did not identify which of their specifically disclosed specie, presently under examination, is being compared to the prior art {e.g., instant Compound 372 found on page 60 of the instant specification}. Also, ALPC appears to stand for a number of compounds {see 4)} in the Table on page 4 at the bottom} but separate data is not given for each compound other than its molecular weight.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13, 15, 33 and 43-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over AT 393505 and

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Eibl et al. {EP 534,445}, each taken alone. English translations of AT 393505 and Eibl et al. have been provided with a previous Office Action and will be referred to hereinafter unless otherwise specified.

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Determination of the scope and content of the prior art (MPEP \$2141.01)

Applicants claim phosphates and phosphoamines. AT 393505 teaches phosphates and phosphoamines which are structurally similar to the instant claimed compounds {see pages 3, 4, 17 and 21-25; and especially Example 13 (page 41) and Example 14 (pages 42-43)}. Eibl et al. also teach phosphate esters which are structurally similar to the instant claimed compounds {page 2, lines 25-42 and Example 5 (Beispiel 5) on page 6 in the EP document; and pages 3-8 in the English translation}.

Ascertainment of the difference between the prior art and the claims

(MPEP §2141.02)

The difference between the compounds of the prior art and the compounds instantly claimed is that the instant claimed compounds are generically described in the prior art.

# Finding of prima facie obviousness--rational and motivation (MPEP \$2142-2413)

The indiscriminate selection of "some" among "many" is prima facie obvious. The motivation to make the claimed compounds derives from the expectation that structurally similar compounds would possess similar activity (e.g., cytotoxic activity).

One skilled in the art would thus be motivated to prepare compounds embraced by the prior art to arrive at the instant claimed compounds with the expectation of obtaining additional beneficial products which would have cytotoxic activity and can be used to treat tumors. The instant claimed invention would have been suggested to one skilled in the art and therefore, the

instant claimed invention would have been obvious to one skilled in the art.

#### Response to Arguments

Applicants' arguments filed August 5, 2005 have been fully considered. Applicants argue that the instant claimed compounds have improved antitumor activity when the double bound in variable A is at a distance from the O (oxygen linkage in variable A) which does not appear in a naturally-occurring corresponding radical and A is a radical having at least 19 carbon atoms. Applicants argue that the instant claimed compounds exhibit further surprising advantages over the cited prior art compounds in that although the prior art compounds show good anti-tumor activity, the prior art compounds exhibit significant toxicity and therefore such compounds having a short carbon chain cannot be administered intravenously but only orally where toxicity is not a problem.

Applicants further argue that, in contrast, it has been surprisingly found that the toxicity problems known in the art no longer occur with compounds having a double bond in a non-naturally occurring position, as claimed in the present invention and that the tumor-effective concentrations of these compounds are no longer toxic. Applicants argue that this is demonstrated in the tests concerning (Z)-10-docosenyl-1-phosphocholine submitted with Applicants' December 15, 2004 response.

All of Applicants' arguments have been considered but have not been found persuasive. Applicants claim phosphates and phosphoamines. AT 393505 teaches phosphates and phosphoamines, which are structurally similar to the instant claimed compounds, that can be administered topically, orally or intravenously {see above noted pages}. Eibl et al. also teach phosphate esters, which are structurally similar to the instant claimed compounds, that can be administered topically or orally {see above noted pages}. Applicants have not

provided the Office with factual persuasive evidence that is demonstrated in a persuasive side-by-side showing of unexpected, beneficial, and superior results of the instant claimed compounds, under examination, over the specie prepared in the cited prior art. Attorney's arguments of unexpected results cannot take the place of evidence in the record. In re DeBlauwe, 222 U.S.P.Q. 191, 196 (Fed. Cir. 1984). As stated above, Applicant relying upon comparative showing to rebut a prima facie case must compare his claimed invention with the closest prior art. In re Holladay, 199 USPQ 516, 1978. Further, the ineffectiveness of the unexecuted Declaration by Dr. H. Eibl filed December 15, 2004 has been discussed above. The rejection of the claims is deemed proper and is therefore maintained.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Laura L. Stockton whose telephone number is (571) 272-0710. The examiner can normally be reached on Monday-Friday from 6:15 am to 2:45 pm. If the examiner is out of the Office, the examiner's supervisor, Joseph McKane, can be reached on (571) 272-0699.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The Official fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Laura L. Stockton, Ph.D.

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Patent Examiner

Art Unit 1626, Group 1620 Technology Center 1600

November 2, 2005